

## FINNTALC M15LV

### Functional Extender

#### GENERAL INFORMATION

**FINNTALC M15LV** is a hydrated magnesium silicate with chemical formula of  $Mg_3Si_4O_{10}(OH)_2$ .

**Finntalc grades** are purified in a cascade of multiple flotation cells. This process results in a tight definition of the talc composition, making this natural product similar to a synthetic chemical. In combination with a precisely controlled particle size distribution, this ensures exact reproducibility in formulations.

#### APPLICATIONS

- Paints & Coatings: General purpose high solids, low VOC architectural and industrial coatings with dry film thickness of 50-60  $\mu m$ .
- Polyester Putties

#### KEY PROPERTIES

- Pure, lamellar, medium particle size talc, stable colour, very hydrophobic, inert, soft and low viscosity.

#### INCORPORATION

**FINNTALC M15LV** can be used as a functional extender to achieve following results:

Good barrier properties, good corrosion resistance and outdoor durability, good sandability and low viscosity impact.

#### LEVELS OF USE

Typical use levels for paints and coatings applications are 10 - 30 % depending upon application and desired properties.

#### HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

#### STORAGE RECOMMENDATIONS

Store dry.

#### SHELF LIFE

**FINNTALC M15LV** has a shelf life of 5 (five) years from the date of manufacture.

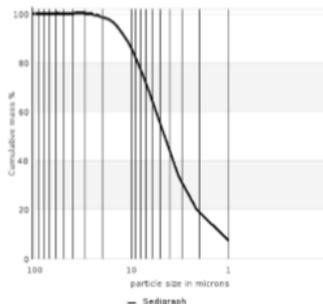
#### QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 certificate, which guarantees that all operations are conducted according to the stipulated standards.

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## FINNTALC M15LV

<b>MINERALOGY</b>	Talc (Mg-Silicate)		96	%
	Traces of magnesite, dolomite and chlorite			
	CAS-No. 14807-96-6	EINECS-No. 238-877-9		
<b>CHEMICAL PROPERTIES</b>	MgO	XRF	31	%
	SiO <sub>2</sub>	XRF	59	%
	CaO	XRF	0.05	%
	Al <sub>2</sub> O <sub>3</sub>	XRF	0.5	%
	Fe <sub>2</sub> O <sub>3</sub>	XRF	2.2	%
	Fe acid soluble	1mol/L HCl, 100°C	0.2	%
	Loss on ignition	DIN 51081/1000°C	6.1	%
	pH value	ISO 787/9	9.1	
<b>OPTICAL PROPERTIES</b>	Whiteness Ry	DIN 53163	84	%
	ISO brightness R457	ISO 2470	82.5	%
	Refractive index	Mallard	1.57	
	CIE L*, a*, b*	DIN 6174	92.5/-0.3/1.2	
	Yellowness index	DIN 6167	1.9	
<b>PHYSICAL PROPERTIES</b>	Top cut D98	Sedigraph, ISO 13317	17	µm
	Median particle size D50	Sedigraph, ISO 13317	4.5	µm
	Fineness of grind	ISO 1524	50	µm
	Specific surface area	BET, ISO 4652	6	m <sup>2</sup> /g
	Oil absorption	ISO 787/5	34	g/100g
	Abrasion	Einlehner AT 1000	5	mg
	Hardness	Mohs	1	
	Tapped density	ISO 787/11	0.55	g/cm <sup>3</sup>
	Bulk density	DIN 53468	0.4	g/cm <sup>3</sup>
	Moisture	ISO 787/2	0.1	%



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